Proteases from Gram-Positive Organisms David A. Estell SN# Unassigned Docket No. GC381-US-D1 Sheet 1 of 11

### 1 / 11

	-														-	٠,
		3	LO.					•	3						•	
atg	jaco	gact	gaa	acco	gtta	atți	tt	caa	gcc	tgt	ttt	caa	agaa	aag	aat	t
M		T		P	L	F		K	P	V	F	K	E	R	I	· '·
50							70						<sub>;</sub> 9 (			
tgo	gaa	ggg	gac	ċgct	ttt	agc	tga	ttt	tgg	cta	tac	cat	tcc	gtc	aca	a
w	Ğ	Ğ	T	Ã	L	A	D	F	G	Y	T	· I	P	S	Q .	
		•		110							30			•		
cga	aac	agg	gga	gtg	ctg	ggc	ttt	tgc	cgc	gca	tca	aaa	tgg	tca	aag	C
R	T.	G	E	С	W	A	F	A	A	H	Q	N	G	Q.	S	
	15	0				•		170							90	
gt	tgt	tca		cgg	aat	gta	taa	ggg	gtt	cac	gct	cag	cga	att	atg	g
V	V	Q	N	G	M	Y	K	G <sub>.</sub>	F	T	Ļ	S	E	L	W	
						0 .			٠			230				
ga	aca	tca	cag	aca	ttt	att	cgg	gaca	gct	tga	agg	ıgga	ccg	ttt	CCC	t
Ē	Н	Н	R	Н	L	F	G	Q.	. <b>L</b>	E	G	D	R	F	P	
		2	50					•	27							2
ct	gct	tac				aga	tgo	tga	cca	gga	ctt	atc	tgt	tca	ggt	.g
Ĺ	L	T	K	I	L	D	A	, D	Q	D	ע	S	<b>V</b>	Q	V	
90							10						33			
ca	tcc	gaa	atga	atga	ata	atgo	caa	acat	aca	tga	aaa	cãã	ıtga	gct	tgg	ıa
Н	P	N	D	E	Y	A	N	I	Н	E	N	G	E	٠,	G.	
				350	)		•				70		-			
aa	aad	aga	aatg	gctg	gta	acat	ta	ttga	tte	gcca	aaa	aaga	tgc	cga	gat	١t
K	T	E	С	W	Y	I	I	D	С	Q	K	D	Α	E	I	
	3 9	90						410							130	٠.
at	tta	atg	gcċ	acaa	atgo	caac	caa	caaa	agga	aaga	aact	caac	ctac	cat	gat	.a
I	Y	G	Н	N	, A	T	Т	K	E	E	T	Т	T	M	I	
•						50	,					470				
ga	agc	gtg					agc	tctt	raci	acca	gtgi	taaa	aggt	aaa	agco	g
E	R	G	Ε	W	D	E	L	L	R	R	V	K	. <b>V</b>	K .	P	
			490							10						. 5
g	ggg	att	Ļtt	tcta	atg	tgc	caa	gcg	gta	ctgt	ttca	atgo	gat	tgg	gaaa	a a
G	D	F	F	Y	, V	P	S	G	T.	V	Н	. <b>A</b>		G	K	
3	0						550						57			
g	gaa	ttc	ttg	ctt	tgg	aga	cgc	agc	aga	acto	caga	acad	caac	cta	acag	ja
G	I	L	A	L	E	${f T}$	Q	Q	N	S	D	${f T}$	${f T}$	Y	R	-

## FIG.\_1A

Proteases from Gram-Positive Organisms David A. Estell SN# Unassigned Docket No. GC381-US-D1 Sheet 2 of 11

### 2/11

			5	590				610							
tta	atat	gat	tat	gac	cga									gag	gctt
L	Υ .	D	Y	D	R	K	D	A	E	G	K	L	R	E	L '
	630	· ·						550					•	6.	70
cat			aaa	aaa	cati	tgaa			agad	aato	CCC	atct	ätt	_	agaa
Н				S				I		v	P	ร	I	P	Ē
		٠		•	69	0			•		•	710		÷.	•
cg	gca	tac	agt	tca	cca	tga	aca	aati	tgag	ggat	tt	gctt	caca	iac	gaca
R	H	T	V	Н	H				E	D		L	T	T <sub>.</sub>	T
	•	7	30			-			75	o .		•	:		7
tt.	gat			cac.	tta	ctt	ttc	aat			atq	gaad	ctta	atca	agga
L	I			A						K	W	N	L	S	G
70						7	90						810	)	••
	adc	aar	ctt	222	aca:		_	acc	att	cctt	ct.	tato			gatt
s	A	S		K	Q	Q	K	P	F	L		I	ຣັ	v	I
				830						85	50				
ga	agg	aga			tat	aat	ctc	taa	tga	gtat	tgt	ctat	cct	ttt	caaa
E	G	E	G	R	M	I	S	G	Ē	Y	v	Y	P	F	K
	87	0						890					•	9:	10
aa			tca	tat	gtt	gct	gcc	tta	cgg	tctt	gg	agaa	att	aaa	actc
K,	G	Ď	H	M	L	L	P	Y	G	L		E	F	K	L
•	•				93	0									
qa	aga	ata	tac	aga			cgt	ctc	cca	tctg	3				
E	G	Y	A	E	c		v	S		L	-				

FIG.\_1B

										<i>:</i> *			
180 LNEYSE	••	KGFTL	09	240 YAAKTD	:   : LG-KTE		290 ↓↓	••		· 	*	кнтунн	230
170 EGIIKIRTGN	•••	SVVQNGM	20	230 YCRSREKGP	:  : :  :  EYANIHENGELG-KTE	110	280 290 <b>↓</b> -GGIFVGPCGNKVDHA	-	PGDFFYVPSG	0 170	340 SSFYPVKN	EVIEVPSIPE	220
WVI		PLFFKPVFKERIWGGTALADFGYTIPSQRTGECWAFAAHQNGQSVVQNGMYKGFTL	40	190 230 240 LLDCDRRSYGCNGGYPWSALQLVAQYGIHYRNTYPYEGVQRYCRSREKGPYAAKTD	1	100		_	IIDCQKDAEIIYGHNATTKEELTTMIERGEWDELLRRVKVKPGDFFYVPSGT	160	300 310 320 340 340 AVGYGPNYILIKNSWGTGWGENGYIRIKRGTGNSYGVCGLYTSSFYPVKN	:	210
150 1 PVKNQGSC GSC		TIPSQRTGEC	30	210 LVAQYGIHYR	:  ::   :	06	260 SIANQPVSVVLEAAGKDFQLYR-		TTMIERGEWI	150	320 GYIRIKRGIGN	YDRKDAEGKI	200
0 WRQKGAVTP	-	GTALADFGY	20	200 ;YPWSALQ	: : SDRFPLLTKI	80	260 SIANQPV	••	SHNATTKEEL	140	∀♥ 310 NSWGTGWGENG	NSDTTYRLYI	190
140 SDVNIPEYVDW		KPVFKERIWG	10	) ORRSYGCNGG	::  HRHLFGQLEC	70	250 QVQPYNEGALLY-		CQKDAEIIY	130	O 3 GPNYILIKN	  GILALETQQ	180
130 a.p VLNDG		PLFF	<b>C</b> ,		l : LWEHI		CK.	••	YIID	120		:  AIGK	
papa_carp OE	,	:  YJDE	SE	papa_carpa.p	GV YJDE	M)	papa_carpa.p	¥ ,	YJDE	H N	papa_carpa.p	YJDE	J

FIG. 2

Proteases from Gram-Positive Organisms David A. Estell SN# Unassigned Docket No. GC381-US-D1 Sheet 4 of 11

4/11

·.	•		FIG3A	ΙL		) )
·	170    1	160	150	140	130 T	AL 0
	IDCKENAEIIYGHTARSKTELVTMINSGDWEGLLRRIKIKPGDFYYVPSGTLHALCKG	RRIKIKPGD	MINSGDWEGLI	TARSKTELVT	IDCKENAEIIYGH	PMI
:	:  :      :  :  :  :  :  :  :  :  :  :		= :: :: :: :: :: :: :: :: :: :: :: :: ::	-: -:		IL -
	I DCOKDAEI I YGHNATTKEELTTMIERGEWDELLRRVKVKPGDFFYVP SGTVHAIGKG	RRVKVKPGDI	MIERGEWDELL	NATTKEELTT	IDCOKDAEIIYGH	yjde.pep
	170 1	160	150	140	120 130 L	·
•		:			)	20
	110 1	100	06	08	70	Ιλ
	JELWEEHREVFGGVEGDRFPLLTKLLDVKEDTSIKVHPDDYYAGENE EGELGKTECW	IKVHPDDYY	TKLLDVKEDTS	SVEGDRFPLL	LIELWEEHREVFGC	- IMA
			- :: :: :: :: :: :: :: :: :: :: :: :: ::	:		ΥΙ
	SELWEHHRHLFGQLEGDRFPLLTKILDADQDLSVQVHPNDEYANIHENGELGKTECW	VQVHPNDEYP	rkildadqdis'	)LEGDRFPLL	LSELWEHHRHLFGC	19 yjde.pep
•	110 1	100	06	08	02 . 09	
	50	140	30	20	10	TY G
	PKGPSTVANGPYKG	IGECWAISAH ♠	REGYSIPSES	KIWGGTALR	MIQSPIFLTPVFKEKIWGGTALRDRFGYSIPSESTGECWAISAHPKGPSTVANGPYKG	- PMI
		=======================================	:::::::::::::::::::::::::::::::::::::::		= ::	Fi
	ONGOSVVQNGMYKG	rgecwafaah	-FGYTIPSQR	RIWGGTALAD	MITEPLFFKPVFKERIWGGTALAD-FGYTIPSORTGECWAFAAHONGOSVVQNGMYKG	59 yjde.pep
	.50	40	30	20	10	

Proteases from Gram-Positive Organisms David A. Estell SN# Unassigned Docket No. GC381-US-D1 Sheet 5 of 11

5/11

					:			•	• •		٠
7	EDLL	: : KGIT	7	8	<b>1LLPY</b>	<del>-</del>	FILPA	ัต			
230	екнтуннео]	l: GYIDESTESP	230	290	VYPFKKGDHN	::	тсрсккорні	290	· · · · · · · · · · · · · · · · · · ·	:	. 1. . 1. . 1. . 1.
220	EVIEVPSIP	:::    : NAATVPHVD	220	280	GEGRMISGEY		GSGLLKYEDK	280		· · · ·	
210	LRELHLKKSI	:   : :	210	270	(PFLLISVIE		SFLICSVIE	270			
200	DYDRKDAEGK		200	260	SGSASLKQQF	:- - - -	NGEAEMAQDE	260		п :	
190	ALETOQNSDTTYRLYDYDRKDAEGKLRELHLKKSIEVIEVPSIPERHTVHHEQIEDLL	:	190	250	TLIECAYFSVGKWNLSGSASLKQQKPFLLISVIEGEGRMISGEYVYPFKKGDHMLLPY		<b>TFVQGEYFSVYKWDINGEAEMAQDESFLICSVIEGSGLLKYEDKTCPLKKGDHFILPA</b>	250	310	GEFKLEGYAECIVSHL	TCTI 310
180	ALET	:       VLET		240	TLIE	<u></u>	TFVÇ	·	300	GEF	PDET
ç	yjde.pep	TT PMI	1K	(	yjde.pep	GL.	: PMI	E G		yjde.pep	PMI

-1G.\_3B

+

Proteases from Gram-Positive Organisms
David A. Estell
SN# Unassigned
Docket No. GC381-US-D1
Sheet 6 of 11

6/11

·			•			;	•	·.	. ,			•	٠	
	IYKG	_	LAG		<del></del> 1	recw	= =	recw	<del>.</del>	т.	IGKG	=.	LCKG	
50	1GQSVVQNGM	<u> </u>	GSSSVKNGE	50	110	IHENGELGK		LHENGDLGK	110	170	YVPSGTVHA		YVPSGTLHA	170
40	ECWAFAAHON	=======================================	ECWAVSAHA!	40	100	VHPNDEYAN		учнероручк	100	160	<b>VKVKPGDFF</b>		RIKIKPGDFF	160
30	GYTIPSQRT		GYAIPSQKTG	30	06	LLDADQDLSVQ		LDANMDLSVC	06	150	ERGEWDELLRF	= ::	ESGDWNGLLRI	150
20	MTTEPLFFKPVFKERIWGGTALAD-FGYTIPSQRTGECWAFAAHQNGQSVVQNGMYKG		THPLFLEPVFKERLWGGTKLRDAFGYAIPSQKTGECWAVSAHAHGSSSVKNGPLAG	20.	80	ELWEHHRHLFGQLEGDRFPLLTKILDADQDLSVQVHPNDEYANIHENGELGKTECW		)QVWKDHPEIFGFPDGKVFPLLVKLLDANMDLSVQVHPDDDYAKLHENGDLGKTECW	80	140	) COKDAEIIYGHNATTKEELTTMIERGEWDELLRRVKVKPGDFFYVPSGTVHAIGKG		DCKDDAELILGHHASTKEEFKQRIESGDWNGLLRRIKIKPGDFFYVPSGTLHALCKG ▲▲	140
10	JEFKPVFKER]		LFLEPVFKER]	. 10	70	EHHRHLFGQL		KOHPEIFGFP	70	130	DAEIIYGHNA	= = = = = = = = = = = = = = = = = = = =	ОВЕГІГСННЯ	130
	MTTEP	-	MTHP		09	LSELW	•••	LDQVW	09	120	IDCQK	<u>:</u>	IDCK	120
	59 yjde.pep	TH	l YDHS	KT		19 yjde.pep	. IX	YDHS	ΥΙ		79 yjde.pep	i H	YDHS	TL

FIG.\_4A

Proteases from Gram-Positive Organisms David A. Estell SN# Unassigned Docket No. GC381-US-D1 Sheet 7 of 11

## 7/11

,	180	190	200	210	220	230	7
39 yjde.pep	ALETO	♦◆ ALETQQNSDTTYRLYDYDRKDAEGKLRELHLKKSIEVIEVPSIPERHTVHHEQIEDLL	rdrkdaegki	RELHLKKSIE	VIEVPSIPE	<b>КНТVННЕQIE</b>	DLL
TT YDHS	:11   VLEIQ		: : :       : :	:: ::  KRTLHIEKAME	:    :  VITIPHIDK	: ::     NHTPEVKEVG	: NAE
II	180	190	200	210	220	230	
,	240	250	260	270	280	290	7
99 yjde.pep	TLIEC	'LIECAYFSVGKWNLSGSASLKQQKPFLLISVIEGEGRMISGEYVYPFKKGDHMLLPY	SSASLKQQK	PFLLISVIEGE	GRMISGEYV	TYPFKKGDHML	LPY
GL	••	=======================================			:: ::	= :: : : : : : : : : : : : : : : : : :	=
SHQX	VYVQS	YVQSDYFSVYKWKISGRAAFPSYQTYLLGSVLSGSGRIINNGIQYECNAGSHFILPA	GRAAFPSYQ	IYLLGSVLSGS	GRIINNGIÇ	YECNAGSHFI	LPA
L H	240	250	260	270	280	290	
yjde.pep	300 GEFKI	310 SEFKLEGYAECIVSHL	· ·	. ;			
YDHS	: GEFTI	:     ::   SEFTIEGTCEFMISHP	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·		
	300	310					

# FIG.\_4B

Proteases from Gram-Positive Organisms David A. Estell SN# Unassigned Docket No. GC381-US-D1 Sheet 8 of 11

## 8/11

٠								•	. 30	n						-
_ <u>.</u>			10	atta	s++	+++:	aga	~cc			taa	agaa	aag	act	ata	<u>.</u>
a t M		gca .H	P	L	F	L			V	F	K	E	R	L	W	و ن 
50							70		.*				· 9	0	•	•
aa	agg	gac	gaa	gct	tca			ttt	tgg	cta	cgc	aat	acc	ctc	aca	a
G	G	T	K	L	R	Ď	Ã	F	Ğ	Y	A	I	<b>P</b> .	S	Q	
٠.				110						1	30			•		
aa	aac	agg	itaa	gtg	cta	aac	cgt	ttc	tgc	aca	tgc	cca	tgg	ctc	gtc	g
K	T	G	E	c	พ	A	v	S	A	H	A	Н	G	s,	S	
	15	0				• •		170		:				_	90	
tc	tgt	aaa	aaaa	atgg	ccc	gct	ggc	agg	aaa	gac	act	tga	tca	agt	atg	g
S			N.	G	P	L	A	G	K	T	L	D :	Q	V	· W	٠.
				-	21	0						230				
aa	aaga	tca	atco	caga	gat	att	cgg	gtt	tcc	gga	tgg	taa	ggt	gtt	tcc	g
K	Ď	H	P			F		F	P	D	G	K	V	F	P	
		:	250						27							2
				agct	gct	gga D	rcac	caa	tat M	gga D	tct L	ctc S	cgt	gca O	agt V	С
L	L	V	K	ר	٠ ٢٠		Α.	74	1.7	ט	J			. 🐱	٠	
90							1:0						. 33			
	atco			atga			aaa	act	gca	cga	aaa	tgg	cga	cct	tgg	t
Н	P	D	D	D	. <b>Y</b>	A	K K	L	Н	ج	1/1	G	D	L	G.	
	•			350							70,					
				gct	ggta	atat	cat	tga	ttg	caa	aga	tga	cgc	cga	act	a
K	T	E	С	W	Y	I	I	ע	C	K	ָּט.	ע	. A	E.	. 4.	•
	3	90					•	410							30	
a	ttt	tgg	gac	atca	atg	caag	gcad	caaa	agga	aga	gtt	caa	aca	acg	aat	a
Ι	L	G	H	H	A	S	Т	K	E	E	F	K	Q	R	I	
						50						470		0.		
g	aaa	gcg	gtg	att	gga	acg	ggc	Egct	cgaç	gcc	gaat	caa	aat	caa	gcc	a
E					N	G	L	Ľ	R	·R	Ţ	K	I	K	P	
			490	120					51						•	5
g	gag	att	tct	ttt	atg	tgc	caa	gcg	gtad	cact	cca	atgo	cttt	ato	gtaa	g
G	• _					P	S	G	T	L	H	A	L	C	K	
	0						550			÷			57			
		ccc	ttc	tcc	ttg	aaa	tcc	agc	aaaa	acto	ctga	atac	caac	cata	tcg	C
~	· •	· ·	ς.	7 7	Ē	т	0	0	N	S	D	T	$\mathbf{T}$	Y	R	

## FIG.\_5A

Proteases from Gram-Positive Organisms David A. Estell SN# Unassigned Docket No. GC381-US-D1 Sheet 9 of 11

### 9/11

				590							10	. :	•			•
ata	ata	cgai	tta	taad	cae	ctg	taa	tgad	cag	ggg	cca	aàa	aag	aac	tctt	•
y V	Y	D	Y	D	R	Ċ	N	D	Q	G	Q	K	R	T	L .	٠.
	_											•	•			٠
	63	0 .					. 0	650							70	•
cat	tat	aga	aaa	agc	cat	gga	agt	cata	aac	gat	acc	gca	tat	cga	taaa ĸ	
Н	·I	E	K	A	M	E	V	I	${f T}$	I	P	H	1	D	K	
												710		٠	•	
-					69	0						710	~=+	cat:	Fortifi	
gt	gca	tac	acc	ggaa	agt	aaaa	aga	agt	ggı	caa	çge	rya	yat.	I	tgtt V	
V	H	${f T}$	P	E	V	K	E	V.	G	N	A	2	:	<b>-</b> :	•	
	٠.	_							75	n			:	•	. 7	
٠.		7	30				-+-	nat.			ato	oaa.	gat	tag	caac	
	tgt	gca	atc	aga	tta	555	CLC	V.	y Ca	K	w	K	J.	ัร	cggc . G	
Y	V	Q	S	D	Y	r	<b>3</b> .	<b>V</b> .	* .	• •				_	·	
20						7	90	•				-	81	0		
70			. + + +	- <del>-</del>	++-	ata	tca	aac	cta	ttt	gct	ggg	gag	tgt	tctg	
	ayı	rege	- <del>-</del>	P	5	Y.	0	·T	Y	L	L	Ğ	S	V	L	
R	^	: ^	r	*	_	·	-									
				830	)						50					
	, ca	gato	cago	gacq	raat	cat	aaa	ataa	tgg	tat	tca	agta	tga	atg	caat	•
S	g G				I	I	N	N	G;	I	Q	Y	E	C	N	
_												•				
	8	70						890	)				•	_	10	
a	cad	act	cac	actt	tal	ttct	gc	ctgc	gca	ttt	tgg	gaga	aatt	tac	aata	L
A	G	_	Н	F	·I	·L	P	A	H	F	G	E	F	<b>T</b>	I	
		•								•						
						30					_ <b>_</b>					
g	aag	gaa	cat	gtg	aat	tcat	tga	tato	tca	TC(	CC					
E	G	T	C	E	F	M	I	S	H	P				•	•	

FIG.\_5B

Proteases from Gram-Positive Organisms David A. Estell SN# Unassigned Docket No. GC381-US-D1 Sheet 10 of 11

## 10/11

							-		3 (	1						•
		:	10	•							~++	taa	ana	222	aato	
atç M		Q gcai	_	accg P	jati I	F	L	T	P	V	F	K	E	K	I	
					•				_				9	0		•
50							70 2 <b>2</b> 2	~ :	s <del>to to 1</del>	taa	ata	cag			ttca	<b>a</b>
	aãa,	cgg	aac	cgct A	T.	acgo R	aga D	Lay:	F	G	Y	S	Ī	P.	s	~
W	. G	G	T	A	ם		•				-					•
				110							30	*				
ga	atc	aac	ggg	gga	atg	ctg	gāc	cat <sup>°</sup>	ttc	cãc	tca	tcc	aaa K	agg G	accs P	3
E	S	$\mathbf{T}$	G	E	С	W	A	1	S	A	H	P		G <sub>.</sub>		٠
	15	0				-	•	170				•			90	
ag	cac	tat	tac	aaa	tgg	ccc	gta	taa	agg	aaa	gac	att	gat	cga	gct	t
S	T	v	Ã		Ğ	P	Y	K	G	K	T	L	I	E	L	
			•		21	^	. •			•	•	230			٠	
· •				accg	21	.U = ~+	a++	caa	caa	cat	aga			atcg	gtt	t
tg W	gga E	aga E	igca H	R R	E	V	F	G	G	V	E	G	Ď	R	F	
	•		) F O				٠.		27	0					•	2
	. ~ ~ +	- + - +	250	caaa	act	act	aas	tat	gaa	aga	aga	atac	gto	caat	taa	a
P	get L	L	_	K	L	L	D	V	K	E	Ď	T	ັຣຸ	I	K	
0.0						3	10						33	30		٠.
90	) . <del></del>		_+ ~:	atga	++=	acta	ta.	caa	aga	aaaa	acaa	aga	aggg	gaga	act	C
V	H		D			Y	A	G	E	N	Ē	Ē	G	E	L	
	•			350	)					3	370	. •				٠.
ac	7022	aga	caa	aatg	acto	aata	acat	tat	cga	acto	gtaa	agga	aaa	acgo	caga	a
G	K	T			W	Y	I	I	D	С	K	E	N	A	E	
	3	90						410	)						130	
at	tca	ttt	acq	ggca	ata	cgg	ccc	gcto	caaa	aaa	ccga	aact	tg	tcad	caat	g
I	I	Y	G	Н	. <b>T</b>	A	R	S	K	Ţ	E	L	V	T	M	
					4	50						470				•
a	tca	aca	gcg	gtg	act	ggg	agg	gcc	tgc	tgc	gaa	gaat	tca	aaat	ttaa	ıa
I		S		D	W	E	G	L	. <b>L</b>	·R	R	I	K	I	K	
			490	)					5	10						5
С	caa	ato	att	tct	att	atg	tgc	cga	gcg	gaa	cgc	tgc	acg	cat	tgtg	JC
				Y	Y	V	P	S	G	T	L	Н	A	L	С	
3	0						550		•					70	*	
а	ago	igad	gcc	cttg	ttt	tag	aga	ctc	agc	aaa	att	cag	atg	cca	cata	aC
ĸ	~~~	. 7	_ 	ιŪ	L	, E	T	, Õ	Q	N	S	D	A	, T	Y	

## FIG.\_6A

Proteases from Gram-Positive Organisms David A. Estell SN# Unassigned Docket No. GC381-US-D1 Sheet 11 of 11

#### 11 / 11

610 590 cgggtgtacgattatgaccgtcttgatagcaacggaagtccgagagag V Y D Y D R L D S N G 650 630 cttcattttgccaaagcggtcaatgccgccacggttccccatgtggac LHFAKAVNAATVPHVD 710 690 gggtatatagatgaatcgacagaatcaagaaaaggaataaccattaaa I D E S T E S R K GII 750 730 acatttgtccaaggggaatatttttcggtttataaatgggacatcaat s v Y G E Y F F V O 790 70 ggcgaagctgaaatggctcaggatgaatcctttctgatttgcagcgtg SFLICSV M A Q D E A E 850 830 atagaaggaagcggtttgctcaagtatgaggacaaaacatgtccgctc YEDK E G S G L L K 890 870 aaaaaaggtgatcactttattttgccggctcaaatgcccgattttacg K G D H F I L P A Q M P 930 ataaaaggaacttgtacccttatcgtgtctcatatt I V T L K G ,C

FIG.\_6B